

PRODUCT CATALOG 2017



*Worldwide Leader in Legacy Memory*



**Alliance Memory** is pleased to highlight our new product offerings in both DRAM and SRAM in this new 2017 edition of our Product Selection Guide. We continue to be the premier legacy memory supplier offering high quality products, minimal die shrinks and long term support.

Please be sure to check our website [alliancememory.com](http://alliancememory.com) for information about our partnership with Micron Technology on the 512M SDRAM product.



# Fast Asynchronous SRAM



## 5V FAST ASYNCHRONOUS SRAM

DENSITY	ORG	VCC	PACKAGES	SPEED (NS)	ALLIANCE
64K	8K x 8	5V	SOJ (28pin), Skinny PDIP (28pin – 300mil)	15	AS7C164A
256K	32K x 8	5V	SOJ (28pin), TSOP I (28pin)	10/12/15/20	AS7C256A
512K	32K x 16	5V	SOJ (44), TSOP II (44)	12/15	AS7C513B
1M	128K x 8	5V	SOJ (32.3 & 32.4), TSOP I (32)	10/12/15/20	AS7C1024B
1M	128K x 8	5V	SOJ (32.3 & 32.4)	10/12/15/20	AS7C1025B/C
1M	64K x 16	5V	SOJ (44), TSOP II (44)	10/12/15/20	AS7C1026B/C
4M	512K x 8	5V	SOJ (36), TSOP II (44)	12/15/20	AS7C4096A
4M	256K x 16	5V	SOJ (44), TSOP II (44)	10/12/15/20	AS7C4098A

## 3.3V FAST ASYNCHRONOUS SRAM

DENSITY	ORG	VCC	PACKAGES	SPEED (NS)	ALLIANCE
256K	32K x 8	3.3V	SOJ (28), TSOP I (28)	10/12/15/20	AS7C3256A
512K	32K x 16	3.3V	SOJ (44), TSOP II (44)	10/12/15/20	AS7C3513B
1M	128K x 8	3.3V	SOJ (32.3 & 32.4), TSOP I (32)	10/12/15/20	AS7C31024B
1M	128K x 8	3.3V	SOJ (32.3 & 32.4)	10/12/15/20	AS7C31025B
1M	128K x 8	3.3V	SOJ (32.3 & 32.4), TSOP II (32)	12/15/20	AS7C31025C
1M	64K x 16	3.3V	SOJ (44), TSOP II (44)	10/12/15/20	AS7C31026B
1M	64K x 16	3.3V	48 ball BGA, TSOP II(44), SOJ(44)	12	AS7C31026C
2M	128K x 16	3.3V	TSOP II (44)	10/12/15/20	AS7C32098A
2M	256K x 8	3.3V	TSOP II (44)	10/12/15/20	AS7C32096A
4M	512K x 8	3.3V	SOJ (36), TSOP II (44)	8/10/12/15/20	AS7C34096A/B
4M	256K x 16	3.3V	SOJ (44), TSOP II (44), TFBGA (48)	8/10/12/15/20	AS7C34098A/B
8M	1024K x 8	3.3V	TFBGA (48), TSOP II (44)	10	AS7C38096A/B
8M	512K x 16	3.3V	TFBGA (48), TSOP II (44)	10	AS7C38098A
16M	2M x 8	3.3V	TFBGA (48), TSOP I (48), TSOP II (54), TSOP II (44)	10	AS7C316096A/B/C
16M	1024K x 16	3.3V	TFBGA (48), TSOP I (48), TSOP II (54)	10	AS7C316098A/B

# Fast Asynchronous SRAM Cross Reference



## 64KFAST

ORG	VCC	PACKAGE	SPEED (NS)	ALLIANCE	CYPRESS EOL
8K x 8	5v	28pin SOJ (300mil)	15	AS7C164A-15JXN	CY7C185-15VI (EOL)
8K x 8	5v	28pin Skinny PDIP 300mil		AS7C164A-15PXN	CY7C185-20PXC (EOL)

## 256K FAST

ORG	VCC	PACKAGE	SPEED (NS)	ALLIANCE	CYPRESS
32K x 8	5v	28pin SOJ	10,12,15,20	AS7C256A-XXJCN/JIN	CY7C199D-10VXI
32K x 8	5v	28pin TSOP I	10,12,15,20	AS7C256A-XXTCN/TIN	CY7C199D-10ZXI
32K x 8	3.3v	28pin SOJ	10,12,15,20	AS7C3256A-XXJCN/JIN	CY7C1399BN-12VXI
32K x 8	3.3v	28pin TSOP I	10,12,15,20	AS7C3256A-XXTCN/TIN	CY7C1399BN-XXZXI
32K x 8	5	28pin DIP	15	AS7C256B-XXPIN	CY7C199CN-15PXC (EOL)

## 512K FAST

ORG	VCC	PACKAGE	SPEED (NS)	ALLIANCE	CYPRESS
32K x 16	5v	44pin SOJ (400MIL)	15	AS7C513B-XXJCN	CY7C1020D-10VXI
32K x 16	5v	44pin TSOP II (400MIL)	12,15	AS7C513B-XXTCN	CY7C1020D-10ZSXI
32K x 16	3.3v	44pin TSOP II (400MIL)	12,15,20	AS7C3513B-XXTCN	CY7C1020DV33-10ZSXI
32K x 16	3.3v	44pin SOJ (400MIL)	10,12,15	AS7C3513B-XXJCN	CY7C1020DV33-10VXI(EOL)

## 1M FAST

ORG	VCC	PACKAGE	SPEED (NS)	ALLIANCE	CYPRESS
128K x 8	5v	32pin SOJ (400MIL)	12,15,20	AS7C1025B-XXJCN/JIN	
128K x 8	3.3v	32pin SOJ (400MIL)	10,12,15,20	AS7C31025B-XXJCN/JIN	CY7C1019DV33-10VXI
128K x 8	3.3v	32pin TSOP II	12	AS7C31025C-XXTIN	CY7C1019DV33-10ZSXI
128K x 8	5v	32pin SOJ (300MIL)	10,12,15,20	AS7C1025B-XXTJCN	
128K x 8	3.3v	32pin SOJ (300MIL)	10,12,15,20	AS7C31025B-XXTJCN	CY7C1018DV33-10VXI
128K x 8	5v	32pin SOJ (400MIL)	10,12,15,20	AS7C1024B-XXJCN/JIN	CY7C109D-10VXI
128K x 8	5v	32pin TSOP I	10,12,15,20	AS7C1024B-XXTCN	CY7C109D-10ZXI
128K x 8	5v	32pin SOJ (300MIL)	10,12,15,20	AS7C1024B-XXTJCN	CY7C1009D-10VXI
128K x 8	5v	32pin SOJ (300MIL/400MIL)	12	AS7C1024C-XXJIN	
128K x 8	3.3v	32pin SOJ (400MIL)	10,12,15,20	AS7C31024B-XXJCN	
128K x 8	3.3v	32pin TSOP I	10,12,15,20	AS7C31024B-XXTCN	
128K x 8	3.3v	32pin SOJ (300MIL)	10,12,15,20	AS7C31024B-XXTJCN	
64K x 16	5v	44pin SOJ (400MIL)	10,12,15,20	AS7C1026B/C-XXJCN/JIN	CY7C1021D-XXVXC(EOL)
64K x 16	5v	44pin TSOP II (400MIL)	10,12,15,20	AS7C1026B/C-XXTCN/TIN	CY7C1021D-10ZSXI
64K x 16	3.3v	44pin SOJ (400MIL)	10,12,15,20	AS7C31026B/C-XXJCN/JIN	CY7C1021DV33-10VXI
64K x 16	3.3v	44pin TSOP II (400MIL)	10,12,15,20	AS7C31026CB/C-XXTCN/TIN	CY7C1021DV33-10ZSXI
64K x 16	3.3v	48ball BGA	12	AS7C31026C-12BIN	

# Fast Asynchronous SRAM Cross Reference



## 2M FAST

ORG	VCC	PACKAGE	SPEED (NS)	ALLIANCE	CYPRESS
128K x 16	3.3v	44pin TSOP II	10,12,15,20	AS7C32098A-XXTXN	CY7C1011DV33-10ZSXI
256K x 8	3.3v	44pin TSOP II	10,12,15,20	AS7C32096A-XXTXN	CY7C1010DV33-10ZSXI

## 4M FAST

ORG	VCC	PACKAGE	SPEED (NS)	ALLIANCE	CYPRESS
512K x 8	5	36pin SOJ (400MIL)	12,15,20	AS7C4096A-XXJXN	CY7C1049GN-10VXI
512K x 8	5	44pin TSOP II (400MIL)	12,15,20	AS7C4096A-XXTXN	
512K x 8	3.3v	36pin SOJ (400MIL)	8,10,12,15,2	AS7C34096A-XXJXN	CY7C1049DV33-10VXI
512K x 8	3.3v	44pin TSOP II (400MIL)	10,12,15,20	AS7C34096A-XXTXN	CY7C1049DV33-10ZSI
256K x 16	5	44pin SOJ (400MIL)	12,15,20	AS7C4098A-XXJXN	CY7C1041D-10VXI
256K x 16	5	44pin TSOP II (400MIL)	12,15,20	AS7C4098A-XXTXN	CY7C1041D-10ZSXI
256K x 16	3.3v	44pin SOJ (400MIL)	10,12,15,20	AS7C34098A-XXJXN	CY7C1041DV33-10VXI
256K x 16	3.3v	44pin TSOP II (400MIL)	8,10,12,15,2	AS7C34098A-XXTXN	CY7C1041DV33-10ZSXI
256K x 16	3.3v	48ball TFBGA	10	AS7C34098A-XXBIN	CY7C1041DV33-10BVXI

## 8M FAST

	VCC	PACKAGE	SPEED (NS)	ALLIANCE	CYPRESS
512K x 16	3.3v	44pin TSOP II	10	AS7C38098A-10TIN	CY7C1051DV33-10ZSXI
512K x 16	3.3v	48ball TFBGA	10	AS7C38098A-10BIN	CY7C1051DV33-10BAXI
1M x 8	3.3v	44pin TSOP II	10	AS7C38096A-10TIN	CY7C1059DV33-10ZSXI
1M x 8	3.3v	48ball TFBGA (different pinout)	10	AS7C38096A-10BIN	
1M x 8	3.3v	48ball TFBGA (different pinout)	10	AS7C38096B-10BIN	

## 16MFAST

	VCC	PACKAGE	SPEED (NS)	ALLIANCE	CYPRESS
1M x 16	3.3v	48pin TSOP I	10	AS7C316098A-10TIN	
1M x 16	3.3v	48ball TFBGA	10	AS7C316098A-10BIN	CY7C1061DV33LL-10BVXI
1M x 16	3.3v	54pin TSOP II	10	AS7C316098B-10TIN	CY71061DV33-10ZXSXI
2M x 8	3.3v	48pin TSOP I	10	AS7C316096A-10TIN	
2M x 8	3.3v	54pin TSOP II	10	AS7C316096B-10TIN	CY7C1069DV33-10ZXSXI
2M x 8	3.3v	44pin TSOP II	10	AS7C316096C-10TIN	
2M x 8	3.3v	48ball TFBGA	10	AS7C316096C-10BIN	

# Low Power Asynchronous SRAM



## 2.7V-3.6V LOW POWER SRAMS

DENSITY	ORG	VCC	PACKAGES	SPEED(NS)	ALLIANCE
256K	32K x 8	2.4 ~ 3.6V	28pin SOP (330mm)	70	AS62V256A-70SIN
2M	256K x 8	2.7 ~ 3.6V	32pin 450 mil SOP	55	AS6C2008-55SIN
2M	256K x 8	2.7 ~ 3.6V	32pin TSOP I (8 x 20mm)	55	AS6C2008-55TIN
2M	256K x 8	2.7 ~ 3.6V	32pin STSOP (8 x 13.4mm)	55	AS6C2008-55STIN
2M	256K x 8	2.7 ~ 3.6V	36pin TFBGA (6 x 8mm)	55	AS6C2008-55BIN
4M	512K x 8	2.7 ~ 3.6V	32pin TSOP I (8 x 20mm)	55	AS6C4008A-55TIN
4M	512K x 8	2.7 ~ 3.6V	32pin TSOP II (8 x 20mm)	55	AS6C4008A-55ZIN
4M	512K x 8	2.7 ~ 3.6V	32pin STSOP (8 x 13.4mm)	55	AS6C4008A-55STIN
4M	512K x 8	2.7 ~ 3.6V	36pin TFBGA (6 x 8mm)	55	AS6C4008A-55BIN
4M	256K x 16	2.7 ~ 3.6V	44pin TSOP II	45	AS6C4016A-45ZIN
4M	256K x 16	2.7 ~ 3.6V	48ball TFBGA (6 x 8mm)	45	AS6C4016A-45BIN
8M	1M x 8	2.7 ~ 3.6V	44pin TSOP II	45	AS6C8008A-45ZIN
8M	1M x 8	2.7 ~ 3.6V	48ball TFBGA (6 x 8mm)	45	AS6C8008A-45BIN
8M	512K x 16	2.7 ~ 3.6V	48pin TSOP I/44pin TSOP II	55	AS6C8016-55TIN/AS6C8016A-55ZIN
8M	512K x 16	2.7 ~ 3.6V	48ball TFBGA (8 x 10mm*) <b>two chip select pins: B5 and A6**</b>	55	AS6C8016A-55BIN
16M	1M x 16	2.7 ~ 3.6V	48ball TFBGA (6 x 8mm)	55/70	AS6C1616-55/70BIN
16M	1M x 16	2.7 ~ 3.6V	48ball TFBGA (6 x 8mm)	55	AS6C1616A-55BIN
16M	1M x 16	2.7 ~ 3.6V	48pin TSOP I (12 x 20mm)	55	AS6C1616-55TIN
16M	2M x 8	2.7 ~ 3.6V	44pin TSOP II	55	AS6C1608-55TIN
16M	2M x 8	2.7 ~ 3.6V	48ball TFBGA	55	AS6C1608-55BIN
32M	2M x 16	2.7 ~ 3.6V	48pin TSOP I (12 x 20mm)	55	AS6C3216-55TIN
32M	2M x 16	2.7 ~ 3.6V	48ball TFBGA (6 x 8mm)	55	AS6C3216-55BIN
64M	4Mx16/8Mx8	2.7 ~ 3.6V	48pin TSOP I (please note: dual chip select 4Mx16 or 8Mx8)	55	AS6C6416-55TIN

\* = AS6C8016A TFBGA part's die size is 8x10mm – which is bigger than AS6C8016 TFBGA package which is 6x8mm – but their lead pitch are the same.

\*\* = AS6C8016A TFBGA part has two chip select pins: B5 and A6. The valid level for B5 pin is low level, the valid level for A6 pin is high level

If customer replaces a single CS pin part like AS6C8016 with AS6C8016A need to pull up A6 pin.

# Low Power Asynchronous SRAM

## 2.7V - 5.5V LOW POWER SRAMS

DENSITY	ORG	VCC	PACKAGES	SPEED(NS)	ALLIANCE
64K	8K x 8	2.7 ~ 5.5V	28pin 600 mil PDIP, 28pin 330 mil SOP, 28pin sTSOP (8x13.4mm)	55	AS6C6264
64K	8K x 8	4.5 - 5.5V	28pin 600 mil PDIP, 28pin 330 mil SOP	70	AS6C6264A
256K	32K x 8	2.7 ~ 5.5V	28pin 600 mil PDIP, 28pin 330 mil SOP, 28pin sTSOP (8x13.4mm)	55	AS6C62256
256K	32K x 8	4.5 ~ 5.5V	28pin 600 mil PDIP, 28pin 330 mil SOP	70	AS6C62256A
1M	64K x 16	2.7 ~ 5.5V	44pin 400 mil TSOP II TFBGA (48)	55	AS6C1016
1M	128K x 8	2.7 ~ 5.5V	32pin 450 mil SOP, 32pin TSOP I (8 x 20mm), 32pin sTSOP (8 x 13.4mm), TFBGA (36), 32pin PDIP	55	AS6C1008
2M	256K x 8	2.7 ~ 5.5V	32pin 450 mil SOP, 32pin TSOP I (8 x 20mm), 32pin sTSOP (8 x 13.4mm), TFBGA (36)	55	AS6C2008A
2M	128K x 16	2.7 ~ 5.5V	44pin 400 mil TSOP II, TFBGA (48)	55	AS6C2016
4M	512K x 8	2.7 ~ 5.5V	32pin 450 mil SOP, 32pin TSOP I (8 x 20mm), 32pin sTSOP (8 x 13.4mm), TFBGA (48), 32pin 600 mil PDIP, 32pin TSOP II	55	AS6C4008
4M	256K x 16	2.7 ~ 5.5V	44pin TSOP II, TFBGA (48)	55	AS6C4016
8M	1024K x 8	2.7 ~ 5.5V	44pin TSOP II, TFBGA (48)	55	AS6C8008
8M	512K x 16	2.7 ~ 5.5V	44pin TSOP II, 48ball TFBGA (6 x 8mm*) <b>one chip select pins: B5**</b>	55	AS6C8016

\* = AS6C8016 TFBGA package which is 6x8mm is smaller than AS6C8016A TFBGA part's die size which is 8x10mm – but their lead pitch are the same.

\*\* = AS6C8016 TFBGA part has one chip select pin: B5. The valid level for B5 pin is low level, the valid level for A6 pin is NC, pull it up or low are OK. If customer replaces a single CS pin part like AS6C8016 with AS6C8016A need to pull up A6 pin.

# ZMD Low Power Asynchronous SRAM

## 5V LOW POWER SRAMS

DENSITY	ORG	VCC	PACKAGES	SPEED(NS)	ZMD PART
64K	8K x 8	4.5 ~ 5.5V	28pin 600 mil PDIP	70	U6264BD
64K	8K x 8	4.5 ~ 5.5V	28pin 330 mil SOP	70	U6264BS2
256K	32K x 8	4.5 ~ 5.5V	28pin 600 mil PDIP	70	U62256AD
256K	32K x 8	4.5 ~ 5.5V	28pin 330 mil SOP	70	U62256AS2

# Low Power Asynchronous SRAM Cross Reference



## 64K LOW POWER

ORG	VCC	PACKAGE	ALLIANCE	CYPRESS EOL
8K x 8	2.7~5.5V	28pin 600mil DIP	AS6C6264-55PCN	
8K x 8	2.7~5.5V	28pin 330mil SOP	AS6C6264-55SCN	CY6264-70SNXC
8K x 8	2.7~5.5V	28pin STSOP (8 x 13.4 mm)	AS6C6264-55STCN	

## 256K LOW POWER

ORG	VCC	PACKAGE	ALLIANCE	CYPRESS
32K x 8	2.7~5.5V	28pin 600mil DIP	AS6C62256-55PCN	CY62256NLL-70PXC
32K x 8	2.7~5.5V	28pin 330mil SOP	AS6C62256-55SXXN	CY62256NLL-55SNXI
32K x 8	2.4~3.6V	28pin 330mil SOP	AS62V256-70SIN	CY62256VNLL-70SNXI
32K x 8	2.7~5.5V	28pin STSOP (8 x 13.4 mm)	AS6C62256-55STXXN	CY62256NLL-55ZXI
32K x 8	2.7~5.5V	28pin STSOP (8 x 13.4 mm)	AS6C62256-55STCN	

## 1M LOW POWER

ORG	VCC	PACKAGE	ALLIANCE	CYPRESS
128K x 8	2.7~5.5V	32pin 600mil DIP	AS6C1008-55PCN	
128K x 8	2.7~5.5V	32pin 450mil SOP	AS6C1008-55SIN	CY62128ELL-45SXI
128K x 8	2.7~5.5V	32pin TSOP I (8 x 20 mm)	AS6C1008-55TIN	CY62128ELL-45ZXI
128K x 8	2.7~5.5V	32pin STSOP (8 x 13.4 mm)	AS6C1008-55STIN	CY62128ELL-45ZAXI
64K x 16	2.7~5.5V	48Ball TFBGA	AS6C1016-55BIN	CY62127DV30LL-55BVXI
64K x 16	2.7~5.5V	44pin TSOP II	AS6C1016-55ZIN	CY62126EV30LL-45ZSXIT

## 2M LOW POWER

ORG	VCC	PACKAGE	ALLIANCE	CYPRESS
256K x 8	3.3v	32pin 450mil SOP	AS6C2008-55SIN	CY62138FV30LL-45SXI
256K x 8	3.3v	32pin TSOP I (8 x 20 mm)	AS6C2008-55TIN	CY62138FV30LL-45ZXI
256K x 8	3.3v	32pin STSOP (8 x 13.4 mm)	AS6C2008-55STIN	CY62138FV30LL-45ZAXI
256K x 8	3.3v	36Ball TFBGA (6mm x 8mm)	AS6C2008-55BIN	CY62138FV30LL-45BVXI
128K x 16	3.3V	44pin TSOP II	AS6C2016-55ZIN	CY62136FVLL-45ZSXI
128K x 16	3.3V	48Ball TFBGA	AS6C2016-55BIN	CY62136FVLL-45BVXI
256K x 8	2.7~5.5v	32pin 450mil SOP	AS6C2008A-55SIN	CY62138FV30LL-45SXI
256K x 8	2.7~5.5v	32pin TSOP I (8 x 20 mm)	AS6C2008A-55TIN	CY62138FV30LL-45ZXI
256K x 8	2.7~5.5v	36Ball TFBGA (6mm x 8mm)	AS6C2008A-55BIN	CY62138FV30LL-45BVXI
256K x 8	2.7~5.5v	36Ball TFBGA (6mm x 8mm)	AS6C2008A-55BIN	CY62138FV30LL-45BVXI



# Low Power Asynchronous SRAM Cross Reference



## 4M LOW POWER

ORG	VCC	PACKAGE	ALLIANCE	CYPRESS
512K x 8	2.7~5.5V	32pin 600mil DIP	AS6C4008-55PCN	
512K x 8	2.7~5.5V	32pin 450mil SOP	AS6C4008-55SIN	CY62148ELL-55SXI
512K x 8	3.3V	32pin 450mil SOP	AS6C4008A-55SIN	CY62148EV30LL-55SXI
512K x 8	2.7~5.5V	32pin TSOP I (8 x 20mm)	AS6C4008A-55TIN	
512K x 8	2.7~5.5V	32pin STSOP (8 x 13.4mm)	AS6C4008-55STIN	CY62148ELL-55ZAXI
512K x 8	3.3V	32pin STSOP (8 x 13.4mm)	AS6C4008A-55STIN	CY62148EV30LL-55ZAXI
512K x 8	2.7~5.5V	32pin TSOP II	AS6C4008-55ZIN	CY62148ELL-45ZSXI
512K x 8	3.3V	32pin TSOP II	AS6C4008A-55ZIN	CY62148DV30
512K x 8	2.7~5.5V	36pin TFBGA (6mm x 8mm)	AS6C4008-55BIN	CY62148EV30LL-45BVXI
512K x 8	3.3V	36pin TFBGA (6mm x 8mm)	AS6C4008A-55BIN	CY62148DV30-55BVXI
256K x 16	2.7~5.5V	44pin TSOP II	AS6C4016-55ZIN	CY62146ELL-45ZSXI
256K x 16	3.3V	44pin TSOP II	AS6C4016A-45ZIN	CY62147EV30LL-45ZSXI
256K x 16	3.3V	48ball TFBGA	AS6C4016A-45BIN	CY62147EV30LL-45BVXI

## 8M LOW POWER

ORG	VCC	PACKAGE	ALLIANCE	CYPRESS
1024K x 8	2.7~5.5V	44pin TSOP II	AS6C8008-55ZIN	CY62158EV30LL-45ZSXI
1024K x 8	2.7~3.6V	44pin TSOP II	AS6C8008A-45ZIN	CY62158EV30LL-45ZSXI
1024K x 8	2.7~5.5V	48ball TFBGA	AS6C8008-55BIN	CY62158EV30LL-45BVXI
1024K x 8	2.7~3.6V	48ball TFBGA	AS6C8008A-45BIN	CY62158EV30LL-45BVXI
512K x 16	2.7~5.5V	48ball TFBGA (6 x 8mm) *	AS6C8016-55BIN*	CY62157EV30LL-55BVXI
512K x 16	2.7~3.6V	48ball TFBGA (8 x 10mm) **	AS6C8016A-55BIN**	
512K x 16	2.7~5.5V	44pin TSOP II	AS6C8016-55ZIN	CY62157EV30LL-55ZSXI
512K x 16	3.3V	44pin TSOP II	AS6C8016A-55ZIN	
512K x 16	2.7~3.6V	48pin TSOP I	AS6C8016-55TIN	

\* = one chip select pin: B5    \*\* = two chip select pins: B5 and A6

# Low Power Asynchronous SRAM Cross Reference

## 16M LOW POWER

ORG	VCC	PACKAGE	ALLIANCE	CYPRESS
1024K x 16	2.7 ~ 3.6V	48ball TFBGA	AS6C1616-55BIN	
1024K x 16	2.7 ~ 3.6V	48ball TFBGA	AS6C1616-70BIN	CY62167EV30LL-45BVI
1024K x 16	2.7 ~ 3.6V	48pin TSOP I	AS6C1616-55TIN	CY62167E30LL-45ZXI
1024K x 16	2.7 ~ 3.6V	48ball TFBGA	AS6C1616A-55BIN	
2048K x 8	2.7 ~ 3.6V	44pin TSOP II	AS6C1608-55TIN	CY62168EV30LL-45ZXI
2048K x 8	2.7 ~ 3.6V	48ball TFBGA	AS6C1608-55BIN	

## 32M LOW POWER

ORG	VCC	PACKAGE	ALLIANCE	CYPRESS
2048K x 16	2.7 ~ 3.6V	48pin TSOP I	AS6C3216-55TIN*	CY62177EV30LL-55ZXI
2048K x 16	2.7 ~ 3.6V	48ball TFBGA	AS6C3216-55BIN	CY62177EV30LL-55BI

## 64M LOW POWER

ORG	VCC	PACKAGE	ALLIANCE	CYPRESS
4048K x 16	2.7 ~ 3.6V	48pin TSOP I	AS6C6416-55TIN	
4048K x 16	2.7 ~ 3.6V	48ball BGA	AS6C6416-55BIN	CY62187EV30LL-55BAXI

\*48pin TSOP I (please note: dual chip select 4Mx16 or 8Mx8)

# ZBT/Sync Pipelined Burst (SPB)/Sync Burst (SB)

DENSITY	ORG	VCC	PACKAGE	MODE	SPEED(MHz)	ALLIANCE
4M	256Kx18	3.3V	100 TQFP	ZBT/SPB	166 MHz	AS8C401801-QC166N
4M	128Kx36	3.3V	100 TQFP	ZBT/SPB	166 MHz	AS8C403601-QC166N
4M	256Kx18	3.3V	100 TQFP	SPB	150 MHz	AS8C401800-QC150N
4M	128Kx36	3.3V	100 TQFP	SPB	150 MHz	AS8C403600-QC150N
4M	256Kx18	3.3V	100 TQFP	SB	7.5NS	AS8C401825-QC75N
4M	128Kx36	3.3V	100 TQFP	SB	7.5NS	AS8C403625-QC75N
9M	512Kx18	3.3V	100 TQFP	ZBT/SPB	150 MHz	AS8C801801-QC150N
9M	256Kx36	3.3V	100 TQFP	ZBT/SPB	150 MHz	AS8C803601-QC150N
9M	512Kx18	3.3V	100 TQFP	ZBT/SB	7.5NS	AS8C801825A-QC75N
9M	256Kx36	3.3V	100 TQFP	ZBT/SB	7.5NS	AS8C803625A-QC75N
9M	512Kx18	3.3V	100 TQFP	SPB	150 MHz	AS8C801800-QC150N
9M	256Kx36	3.3V	100 TQFP	SPB	150 MHz	AS8C803600-QC150N
9M	512Kx18	3.3V	100 TQFP	SB	7.5NS	AS8C801825-QC75N
9M	256Kx36	3.3V	100 TQFP	SB	7.5NS	AS8C803625-QC75N
18M	1Mx18	2.5V	100 TQFP	ZBT/SPB	166 MHz	AS8C161831-QC166N
18M	512Kx36	2.5V	100 TQFP	ZBT/SPB	166 MHz	AS8C163631-QC166N

## Sync SRAM Cross Reference

DENSITY	ORG	PACKAGE	MODE	ALLIANCE	CYPRESS
4M	128Kx36	100TQFP	SPB	AS8C403600-QC150N	CY7C1347G-xxxAX
4M	256Kx16	100TQFP		AS8C401800-QC150N	CY7C1327G-xxxAX
4M	128Kx36	100TQFP	SB	AS8C403625-QC75N	CY7C1345G-xxxAX
4M	256Kx18	100TQFP		AS8C401825-QC75N	CY7C1325G-xxxAX
4M	128Kx36	100TQFP	ZBT/SPB	AS8C403601-QC166N	CY7C1350G-xxxAX
4M	256Kx18	100TQFP		AS8C401801-QC166N	CY7C1352G-xxxAX
9M	256Kx36	100TQFP	SPB	AS8C803600-QC150N	CY7C1360C-xxxAJX
9M	512Kx18	100TQFP		AS8C801800-QC150N	CY7C1362C-xxxAJX
9M	256Kx36	100TQFP	SB	AS8C803625-QC75N	CY7C1361C-xxxAJX
9M	256Kx36	100TQFP		AS8C801825-QC75N	CY7C1363C-xxxAJX
9M	512Kx18	100TQFP	ZBT/SPB	AS8C803601-QC150N	CY7C1354C-xxxAJX
9M	512Kx18	100TQFP		AS8C801801-QC150N	CY7C1356C-xxxAJX
9M	256Kx36	100TQFP	ZBT/SB	AS8C803625A-QC75N	CY7C1351C-xxxAJX
9M	512Kx18	100TQFP		AS8C801825A-QC75N	CY7C1353C-xxxAJX
18M	512Kx36	100TQFP	ZBT/SPB	AS8C163631-QC166N	CY7C1370D-xxxAX
18M	1Mx18	100TQFP		AS8C161831-QC166N	CY7C1372D-xxxAX

# Synchronous DRAM 3.3V x8,x16 and x32



DENSITY	ORG	VCC	PACKAGE	CLOCK FREQUENCY (MHz)	TEMPERATURE	ALLIANCE
16M	1M x 16	3.3V	50pin TSOP II	143/166 MHz	Commercial, Industrial	AS4C1M16S-6/7TxN
64M	4M x 16	3.3V	54pin TSOP II/54-ball FBGA	143/166/200 MHz	Commercial, Industrial, Automotive	AS4C4M16SA-5/6/7 TxN/BxN
64M	2M x 32	3.3V	90-ball BGA	143/166 MHz	Commercial, Industrial	AS4C2M32S-6/7 BxN
64M	2M x 32	3.3V	86pin TSOP II	143/166 MHz	Commercial, Industrial	AS4C2M32SA-6/7 TxN
128M	8M x 16	3.3V	54pin TSOP II/54-ball FBGA	143/166 MHz	Commercial, Industrial, Automotive	AS4C8M16SA-6/7 TxN/BxN
128M	4M x 32	3.3V	90-ball BGA	143/166 MHz	Commercial, Industrial	AS4C4M32S-6/7 BxN
128M	4M x 32	3.3V	86pin TSOP II	143/166 MHz	Commercial, Industrial	AS4C4M32SA-6/7 TxN
256M	16M x 16	3.3V	54pin TSOP II/54-ball FBGA	143/166 MHz	Commercial, Industrial, Automotive	AS4C16M16SA-6/7 TxN/BxN
256M	8M x 32	3.3V	86pin TSOP II/90-ball FBGA	143/166 MHz	Commercial, Industrial	AS4C8M32S-6/7 TxN/BxN
512M	32M x 16	3.3V	54pin TSOP II/54-ball FBGA	143 MHz	Commercial, Industrial	AS4C32M16SA-7 TxN/BxN
512M	32M x 16	3.3V	54pin TSOP II	133/143 MHz	Commercial, Industrial	AS4C32M16SB-6/7TxN
512M	32M x 16	3.3V	54pin TSOP II	133 MHz	Commercial, Industrial	MT48LC32M16A2P-75:C/MT48LC32M16A2P-75 IT:C MT48LC32M16A2TG-75:C/MT48LC32M16A2TG-75:IT:C
512M	64M x 8	3.3V	54pin TSOP II	133 MHz	Commercial, Industrial	MT48LC64M8A2P-75:C / MT48LC64M8A2P-75 IT:C MT48LC64M8A2TG-75:C / MT48LC64M8A2TG-75:IT:C

## Synchronous DRAM 3.3V Cross Reference

DENSITY	ORG	ALLIANCE	MICRON
16M	1M x 16	AS4C1M16S-6/7TxN	MT48LC1M16A1
64M	4M x 16	AS4C4M16SA-6/7TxN	MT48LC4M16A2P
64M	4M x 16	AS4C4M16SA-6/7BxN	MT48LC4M16A2B4
64M	2M x 32	AS4C2M32S-6/7BxN	MT48LC2M32B2B5-x
64M	2M x 32	AS4C2M32SA-6/7TxN	MT48LC2M32B2P-x
128M	8M x 16	AS4C8M16SA-6/7TxN	MT48LC8M16A2P
128M	8M x 16	AS4C8M16SA-6/7BxN	MT48LC8M16A2B4
128M	4M x 32	AS4C4M32S-6/7BxN	MT48LC4M32B2B5-x
128M	4M x 32	AS4C4M32SA-6/7TxN	MT48LC4M32B2P-x
256M	16M x 16	AS4C16M16SA-6/7TxN	MT48LC16M16A2P
256M	16M x 16	AS4C16M16SA-6/7BxN	MT48LC16M16A2B4
256M	8M x 32	AS4C8M32S-6/7BxN	MT48LC8M32B2B5-x
512M	32M x 16	AS4C32M16SA-7TxN	MT48LC32M16A2P-75
512M	32M x 16	AS4C32M16SA-7BxN	
512M	32M x 16	AS4C32M16SB-7TxN	MT48LC32M16A2P-75
512M	32M x 16	MT48LC32M16A2P-75	MT48LC32M16A2P-75
512M	32M x 16	MT48LC32M16A2G-75	MT48LC32M16A2G-75
512M	64M x 8	MT48LC64M8A2P-75	MT48LC64M8A2P-75:C
512M	64M x 8	MT48LC64M8A2G-75	MT48LC64M8A2G-75

# MOBILE LOW POWER SDRAM

DENSITY	ORG	VCC	PACKAGE	CLOCK FREQUENCY (MHz)	TEMPERATURE OPTIONS	ALLIANCE
512M	32Mx16	1.8V	54-ball BGA (8x9mm)	133/166MHz	Commercial(Extended)-25°C+ 85°C/Industrial-25°C+ 85°C	<b>AS4C32M16MS-6/7 BXN</b>
512M	16Mx32	1.8V	90-ball BGA (8x13mm)	133/166MHz	Commercial(Extended)-25°C+ 85°C/Industrial-25°C+ 85°C	<b>AS4C16M32MS-6/7 BXN</b>

# MOBILE LOW POWER SDRAM Cross Reference

DENSITY	ALLIANCE	MICRON
512M	<b>AS4C32M16MS-6/7 BXN</b>	<b>MT48H32M16LFB4-XX</b>
512M	<b>AS4C16M32MS-6/7 BXN</b>	<b>MT48H16M32LFB5-XX</b>

# DDR 2.5V SDRAM

DENSITY	ORG	VCC	PACKAGE	CLOCK FREQUENCY (MHz)	DATA RATE	TEMPERATURE OPTIONS	ALLIANCE
64M	4M x 16	2.5V	66pin TSOP II	200 MHz	400Mbps/pin	Commercial, Industrial , Automotive	AS4C4M16D1A-5TxN
64M	2M x 32	2.5V	144-ball FBGA	200 MHz	400Mbps/pin	Commercial, Industrial	AS4C2M32D1A-5BxN
128M	8M x 16	2.5V	60-ball FBGA, 66pin TSOP II	200 MHz	400Mbps/pin	Commercial, Industrial	AS4C8M16D1-5BxN / AS4C8M16D1A-5TxN
128M	4M x 32	2.5V	144-ball FBGA	200 MHz	400Mbps/pin	Commercial, Industrial	AS4C4M32D1A-5BxN
256M	32M x 8	2.5V	66pin TSOP II	200 MHz	400Mbps/pin	Commercial, Industrial	AS4C32M8D1-5TxN
256M	16M x 16	2.5V	60-ball FBGA, 66pin TSOP II	200 MHz	400Mbps/pin	Commercial, Industrial	AS4C16M16D1-5BxN / AS4C16M16D1A-5TxN
512M	64M x 8	2.5V	60-ball FBGA, 66pin TSOP II,	200 MHz	400Mbps/pin	Commercial, Industrial	AS4C64M8D1-5TxN/5BxN
512M	32M x 16	2.5V	60-ball FBGA, 66pin TSOP II,	200 MHz	400Mbps/pin	Commercial, Industrial	AS4C32M16D1-5BxN / AS4C32M16D1A-5TxN
1GB	64M x 16	2.5V	66pin TSOP II	166 MHz	333Mbps/pin	Commercial, Industrial	AS4C64M16D1-6TxN/AS4C64M16D1A-6TXN

# DDR 2.5V SDRAM Cross Reference

DENSITY	ALLIANCE	MICRON
64M	AS4C4M16D1A-5TxN	MT46V4M16V1
64M	AS4C2M32D1-5BxN	MT46V2M32LG
128M	AS4C8M16D1-5BxN	MT46V8M16CY
128M	AS4C8M16D1A-5TxN	MT46V8M16P
128M	AS4C4M32D1A-5BxN	MT46V4M32LG
256M	AS4C32M8D1-5TxN	MT46V32M8P
256M	AS4C16M16D1-5Bxx	MT46V16M16CY
256M	AS4C16M16D1A-5TxN	MT46V16M16P
512M	AS4C64M8D1-5TxN	MT46V64M8P
512M	AS4C64M8D1-5BxN	MT46V64M8CY
512M	AS4C32M16D1-5BxN	MT46V32M16CY
512M	AS4C32M16D1A-5TxN	MT46V32M16P
1GB	AS4C64M16D1-6TxN	MT46V64M16P

## DDR2 1.8V SDRAM

DENSITY	ORG	VCC	PACKAGE	CLOCK FREQUENCY (MHz)	DATA RATE	TEMPERATURE OPTIONS	ALLIANCE
256M	16M x 16	1.8V	84-ball FBGA	400 MHz	800Mbps/pin	Commercial, Industrial	AS4C16M16D2-25BxN
512M	32M x 16	1.8V	84-ball FBGA	400 MHz	800Mbps/pin	Commercial, Industrial, Automotive	AS4C32M16D2A-25BxN
512M	64M x 8	1.8V	60-ball FBGA	400 MHz	800Mbps/pin	Commercial, Industrial, Automotive	AS4C64M8D2-25BXN
1G	64M x 16	1.8V	84-ball FBGA	400 MHz	800Mbps/pin	Commercial, Industrial, Automotive	AS4C64M16D2-25BXN
1G	128M x 8	1.8V	60-ball FBGA	400 MHz	800Mbps/pin	Commercial, Industrial	AS4C128M8D2-25BXN
2G	128M x 16	1.8V	84-ball FBGA	400 MHz	800Mbps/pin	Commercial, Industrial	AS4C128M16D2-25BXN/AS4C128M16D2A-25BXN
2G	256M x 8	1.8V	60-ball FBGA	400 MHz	800Mbps/pin	Commercial, Industrial	AS4C256M8D2-25BXN

## DDR2 1.8V SDRAM Cross Reference

DENSITY	ALLIANCE	MICRON
256M	AS4C16M16D2-25BxN	
512M	AS4C32M16D2A-25BxN	MT47H32M16HR-25E
512M	AS4C64M8D2-25BxN	MT47H64M8CF-25E
1G	AS4C64M16D2-25BxN	MT47H64M16HR-25E
1G	AS4C128M8D2-25BxN	MT47H128M8SH-25E
2G	AS4C128M16D2A-25BxN	MT47H128M16RT-25E
2G	AS4C256M8D2-25BxN	MT47H256M8EB-25E

# DDR3 1.5V SDRAM



DENSITY	ORG	VCC	PACKAGE	CLOCK FREQUENCY (MHz)	DATA RATE	TEMPERATURE OPTIONS	ALLIANCE
1G	64M x 16	1.5V	96-ball FBGA	800 MHz	DDR3-1600bps/pin	Commercial, Industrial, Automotive	AS4C64M16D3A-12BxN
1G	128M x 8	1.5V	78-ball FBGA	800 MHz	DDR3-1600bps/pin	Commercial, Industrial, Automotive	AS4C128M8D3-12BxN
2G	128M x 16	1.5V	96-ball FBGA	800 MHz	DDR3-1600bps/pin	Commercial, Industrial, Automotive	AS4C128M16D3A&B-12BxN
2G	256M x 8	1.5V	78-ball FBGA	667/800 MHz	DDR3-1600bps/pin	Commercial, Industrial, Automotive	AS4C256M8D3-12BxN
4G	256M x 16	1.5V	96-ball FBGA	800 MHz	DDR3-1600bps/pin	Commercial, Industrial, Automotive	AS4C256M16D3A&B-12BxN
4G	512M x 8	1.5V	78-ball FBGA	800 MHz	DDR3-1600bps/pin	Commercial, Industrial, Automotive	AS4C512M8D3A-12BxN

# DDR3L 1.35V SDRAM

DENSITY	ORG	VCC	PACKAGE	CLOCK FREQUENCY (MHz)	DATA RATE	TEMPERATURE OPTIONS	ALLIANCE
1G	64M x 16	1.35V	96-ball	800 MHz	DDR3-1600bps/pin	Commercial, Industrial, Automotive	AS4C64M16D3LA-12BxN
1G	128M x 8	1.35V	78-ball	800 MHz	DDR3-1600bps/pin	Commercial, Industrial, Automotive	AS4C128M8D3L-12BxN
2G	128M x 16	1.35V	96-ball FBGA	800 MHz	DDR3-1600bps/pin	Commercial, Industrial, Automotive	AS4C128M16D3LA&B-12BxN
2G	256M x 8	1.35V	78-ball FBGA	800 MHz	DDR3-1600bps/pin	Commercial, Industrial, Automotive	AS4C256M8D3LA-12BxN
4G	256M x 16	1.35V	96-ball FBGA	800 MHz	DDR3-1600bps/pin	Commercial, Industrial, Automotive	AS4C256M16D3LA&B-12BxN
4G	512M x 8	1.35V	78-ball FBGA	800 MHz	DDR3-1600bps/pin	Commercial, Industrial, Automotive	AS4C512M8D3LA-12BxN
8G	1G x 8	1.35V	78-ball FBGA	800 MHz	DDR3-1600bps/pin	Commercial	AS4C1G8MD3L-12BCN
8G	512M x 16	1.35V	96-ball FBGA	800 MHz	DDR3-1600bps/pin	Commercial (Extended), Industrial	AS4C512M16D3L-12BxN

# DDR3 SDRAM Cross Reference

DENSITY	ALLIANCE	MICRON
1G	AS4C64M16D3-12BxN	MT41J64M16JT-125
1G	AS4C64M16D3L-12BxN	MT41K64M16JT-125
1G	AS4C128M8D3-12BxN	MT41J128M8JP-125
1G	AS4C128M8D3L-12BxN	MT41K128M8JT-125
2G	AS4C128M16D3-12BxN	MT41J128M16HA-125
2G	AS4C128M16D3L-12BxN	MT41K128M16JT-125
2G	AS4C256M8D3-12BxN	MT41J256M8DA-125
2G	AS4C256M8D3L-12BxN	MT41K256M8DA-125
4G	AS4C256M16D3-12BxN	MT41J256M16HA-125
4G	AS4C256M16D3L-12BxN	MT41K256M16HA-125
4G	AS4C512M8D3-12BxN	MT41J512M8RH-125
4G	AS4C512M8D3L-12BxN	MT41K512M8RH-125
8G	AS4C1G8MD3L-12BCN	MT41K1G8TRF-125:E
8G	AS4C512M16D3L-12BxN	MT41K512M16HA-125



## MOBILE LP DDR

DENSITY	ORG	VCC	PACKAGE	CLOCK FREQUENCY (MHz)	DATA RATE	TEMPERATURE OPTIONS	ALLIANCE
256M	16Mx16	1.8V	60-ball FPBGA	166MHz	333Mbps/pin	Commercial (Extended)	AS4C16M16MD1-6BCN
512M	32Mx16	1.8v	60-ball FPBGA	200MHz	400Mbps/pin	Commercial (Extended)	AS4C32M16MD1A-5BCN
512M	16Mx32	1.8v	90-ball FPBGA	200MHz	400Mbps/pin	Commercial (Extended)/industrial	AS4C16M32MD1-5BxN
1G	64Mx16	1.8V	60-ball FPBGA	166MHz	333Mbps/pin	Commercial (Extended)/industrial	AS4C64M16MD1-6BxN
1G	32Mx32	1.8V	90-ball FPBGA	200MHz	400Mbps/pin	Commercial (Extended)/industrial	AS4C32M32MD1-5BxN
2G	64Mx32	1.8V	90-ball FPBGA	200MHz	400Mbps/pin	Commercial (Extended)/industrial	AS4C64M32MD1-5BxN

## MOBILE LP DDR2

DENSITY	ORG	VCC	PACKAGE	CLOCK FREQUENCY (MHz)	DATA RATE	TEMPERATURE OPTIONS	ALLIANCE
1G	64Mx32	1.2V/1.8V	134-ball FBGA	400MHz	800Mbps/pin	Commercial (Extended) -30°C+ 85°C	AS4C64M16MD2-25BCN
1G	32Mx32	1.2V/1.8V	134-ball FBGA	400MHz	800Mbps/pin	Commercial (Extended) -30°C+ 85°C	AS4C32M32MD2-25BCN
2G	128Mx16	1.2V/1.8V	134-ball FBGA	400MHz	800Mbps/pin	Commercial (Extended) -25°C+ 85°C	AS4C128M16MD2-25BCN
2G	64M x 32	1.2V/1.8V	134-ball FBGA	400MHz	800Mbps/pin	Commercial (Extended) -25°C+ 85°C	AS4C64M32MD2-25BCN
4G	128M x 32	1.2V/1.8V	134-ball FBGA	533MHz	1066Mbps/pin	Commercial (Extended) -25°C+ 85°C/Industrial	AS4C128M32MD2-18BXN
8G	256M x 32	1.2V/1.8V	134-ball FBGA	533MHz	1066Mbps/pin	Commercial (Extended) -25°C+ 85°C/Industrial	AS4C256M32MD2-18BXN

## MOBILE LP DDR3

DENSITY	ORG	VCC	PACKAGE	CLOCK FREQUENCY (MHz)	DATA RATE	TEMPERATURE OPTIONS	ALLIANCE
16G	512Mx32	1.2V/1.8V	178-ball FBGA	667MHz	1333Mbps/pin	Commercial (Extended) -25°C+ 85°C	AS4C512M32MD3-15BCN

## MOBILE LP DDR Cross Reference

DENSITY	ALLIANCE	MICRON
256M	AS4C16M16MD1-6BxN	MT46H16M16LFBF-6
512M	AS4C32M16MD1A-5BxN	MT46H32M16LFBF-5
512M	AS4C16M32MD1-5BxN	MT46H16M32LFB5-5
1G	AS4C64M16MD1-6BxN	MT46H64M16LFBF-6
1G	AS4C32M32MD1-5BxN	MT46H32M32LFB5-5
2G	AS4C64M32MD1-5BxN	MT46H64M32LFB5-5

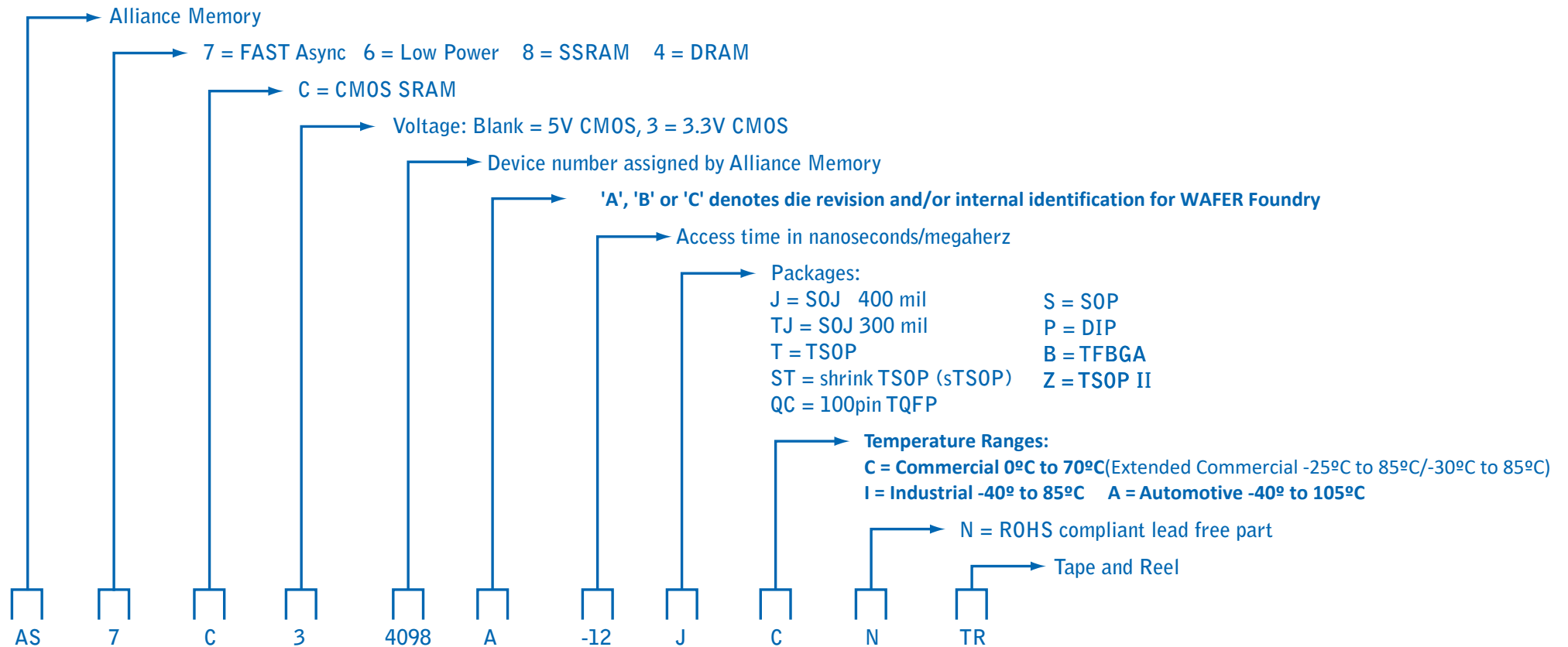
## MOBILE LP DDR2 Cross Reference

DENSITY	ALLIANCE	MICRON
1G	AS4C64M16MD2-25BCN	N/A
1G	AS4C32M32MD2-25BCN	N/A
2G	AS4C128M16MD2-25BCN	MT42L128M16D1MH-25
2G	AS4C64M32MD2-25BCN	MT42L64M32D1MH-25
4G	AS4C128M32MD2-18BXN	MT42L128M32D1GU-18
8G	AS4C256M32MD2-18BXN	N/A

## MOBILE LP DDR3 Cross Reference

DENSITY	ALLIANCE	MICRON
16G	AS4C512M32MD2-25BCN	N/A

# ALLIANCE PART NUMBERING SYSTEM



# Alliance Packaging Quantities



## FAST SRAM ORDER QTY

Part#	Package Suffix	Package	Box Qty	Quantity Per Tray/Tube	Reel Size	Tape Width (mm)	Tape Pitch (mm)
164A, 256A, 3256A	JxN	28SOJ-300mil	2500	25/tube	1000	24	12
256B	JIN	28SOJ-300mil	1080	27/tube	1000	24	12
3256B	JIN	28SOJ-300mil	1352	26/tube	1000	24	12
256A, 3256A	TxN	28TSOP I (8x13.4)	2340	234/tray	1000	24	12
1025B, 31025B, 1024B, 31024B	TJCN	32.3 SOJ - 300mil	2200	22/tube	1000	32	12
1024C	TJIN	32.3 SOJ - 300mil	920	23/tube	1000	32	12
31025C	TJIN	32.3 SOJ - 300mil	805	23/tube	1000	32	12
1025B, 31025B, 1024B, 31024B	JCN	32.4SOJ-400mil	2100	21/tube	1000	32	16
1024C, 1025C, 31025C	JIN	32.4SOJ-400mil	805	23/tube	1000	32	16
513B, 3513B, 1026B, 31026B	JCN	44SOJ-400mil-1 Meg	1600	16/tube	500	44	16
1026C, 31026C	JIN	44SOJ-400mil-1 Meg	560	16/tube	500	44	16
1024B, 31024B	TCN	32TSOP I (8x20)	1560	156/tray	1000	32	12
31025C	TIN	32TSOP I (8x20)	805	23/tube	1000	32	12
513B, 3513B, 1026B, 31026B	TCN	44TSOP II-400mil-1 Meg	1350	135/tray	1000	32	16
1026C, 31026C	TIN	44TSOP II-400mil-1 Meg	1352	26/tube	1500	32	16
31026C	BIN	48ballFBGA	3600	360/tray	2000	44	16
4096A, 34096A, 4098A, 34098A	TxN	44TSOP II-400mil-4 Meg	1350	135/tray	1000	32	16
4096A, 34096A	JxN	36SOJ-400mil	1900	19/tube	500	44	16
4098A, 34098A	JxN	44SOJ-400mil-4 Meg	1600	16/tube	500	44	16
34098A	B	48ballBGA	2200	480/tray			
38096A, 38098A	TIN	44TSOP II	1350	135/tray	1000	44	16
38096A, 38098A	B	48ballBGA	4800	480/tray	2000	44	16
316096A, 316098A	TIN	48TSOP I	1350	135/tray	1000	44	16
316098A	B	48ballBGA	4800	480/tray	2000	16	16

## LOW POWER SRAM ORDER QTY

Part#	Package Suffix	Package	Box Qty	Quantity Per	Reel Size	Tape Width (mm)	Tape Pitch (mm)
6264/62256	S	28pin330milSOP	2500	25/tube	1000	24	16
6264/62256	P	28pin600milDIP	600	15s/tube	NA	NA	NA
6264/62256	ST	28pin STSOP (8x13.4)	2340	234/tray	1500	24	12
1008/2008/4008	P	32pin 600milDIP	520	13s/tube	NA	NA	NA
1008/2008/4008	S	32pin450milSOP	2200	22/tube	1000	32	16
1008/2008/4008	T	32pin TSOP I (8x20)	1560	156/tray	1500	32	12
1008/2008/4008	ST	32pin STSOP (8x13.4)	2340	234/tray	1500	24	12
1016/2016/4016/8008/8016	Z	44pin TSOP II 400mil	1350	135/tray	1000	32	12
1616/6416	T	48pin TSOP I	960	96/tray	1000		
1008/2008/4008/8008/1016/1616/2016/4016/8016/1616/3216	B	36B/48B TFBGA (6x8)	4800 or 3000	480/tray or 300/tray	2000	16	12
4008	Z	32pin TSOP II	1170	117/tray	1000	32	16

# Alliance Packaging Quantities

## DRAMORDERQTY

Part#	Package	Box Qty	Quantity Tray	Reel size
<b>SDRAM</b>				
AS4C1M16S	50pin TSOP II	1170	117/Tray	1000
AS4C4M16S/AS4C4M16SA	54pin TSOP II	1080	108/Tray	1000
AS4C4M16S/AS4C4M16SA	54ball BGA	3480	348/Tray	2500
AS4C2M32SA/AS4C4M32SA	86pin TSOP II	1080	108/Tray	1000
AS4C2M32S/AS4C4M32S	90ball BGA	1900	190/Tray	2000
AS4C8M16S/AS4C8M16SA	54pin TSOP II	1080	108/Tray	1000
AS4C8M16S/AS4C8M16SA	54ball TFBGA	3480	348/Tray	2500
AS4C16M16S/AS4C16M16SA	54pin TSOP II	1080	108/Tray	1000
AS4C16M16S/AS4C16M16SA	54ball FBGA	3480	348/Tray	2500
AS4C8M32S	90ball LFBGA	1900	190/Tray	2000
AS4C32M16SA	54pin TSOP II	960	96/Tray	1000
AS4C32M16SA	54ball FBGA	3480	348/Tray	1000
MT48LC32M16A2P-75*	54pin TSOP II	1000	108/Tray	1000
MT48LC64M8A2P-75*	54pin TSOP II	1000	108/Tray	1000

\* Alliance Memory has collaborated with Micron for exclusive rights to continue to provide these Micron marked parts

# Alliance Packaging Quantities

## DRAMORDERQTY

Part#	Package	Box Qty	Quantity Tray	Reel size
<b>DDR1</b>				
AS4C4M16D1A/AS4C8M16D1/AS4C8M16D1A/ AS4C16M16D1 AS4C16M16D1A/ AS4C32M8D1/ AS4C32M16D1/AS4C32M16D1A/ AS4C64M8D1/ AS4C64M16D1/AS4C64M16D1A	66pin TSOP II	1080	108/Tray	1000
AS4C8M16D1/AS4C16M16D1/ AS4C32M16D1/AS4C64M8D1	60ball TFBGA	2400	240/Tray	2500
AS4C2M32D1A/AS4C4M32D1A	144ball FBGA	1890	189/Tray	1500

## DDR2

AS4C16M16D2/AS4C32M16D2/AS4C32M16D2A/ AS4C64M16D2	84ball FBGA	2090	209/Tray	2500
AS4C64M8D2	60ball FBGA	2090	209/Tray	2500
AS4C128M8D2	60ball FBGA	3000	300/Tray	2500
AS4C128M16D2/AS4C128M16D2A	84ball FBGA	1620	162/Tray	2500
AS4C256M8D2	60ball FBGA	1360	136/Tray	2500

## DDR3

AS4C128M8D3/AS4C128M8D3L	78ball FBGA	2420	242/Tray	1000
AS4C64M16D3A/AS4C64M16D3LA	96ball FBGA	1900	190/Tray	2000
AS4C128M16D3A & B/AS4C128M16D3LA & B	96ball FBGA	1900	190/Tray	2000
AS4C256M8D3A/AS4C256M8D3LA	78ball FBGA	2420	242/Tray	1000
AS4C256M16D3A & B/AS4C256M16D3LA & B	96ball FBGA	1800	180/Tray	2000
AS4C512M8D3A/AS4C512M8D3LA/AS4C1G8MD3L	78ball FBGA	2200	220/Tray	1000
AS4C256M32D3/AS4C256M32D3L	136ball FBGA	2200	220/Tray	1000
AS4C512M16D3L	96ball FBGA	1020	170/Tray	1000

# Alliance Packaging Quantities

## DRAMORDERQTY

Part#	Package	Box Qty	Quantity Tray	Reel size
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### MOBILE DDR1

AS4C16M16MD1	60ball FPBGA	3120	312/Tray	1000
AS4C32M16MD1/AS4C32M16MD1A	60ball FPBGA	1600	160/Tray	2000
AS4C16M32MD1	90ball FPBGA	2400	240/Tray	1000
AS4C64M16MD1	60ball FPBGA	3000	300/Tray	1000
AS4C32M32MD1	90-ball FPBGA	3480	348/Tray	1000
AS4C64M32MD1	90-ball FPBGA	3480	348/Tray	1000

### MOBILE DDR2

AS4C64M16MD2-25BCN/AS4C32M32MD2-25BCN	134ball FBGA (10X11.5X1.0)	1280	128/Tray	1000
AS4C128M16MD2-25BCN/AS4C64M32MD2-25BCN	134ball FBGA (10X11.5X1.0)	1280	1280/Tray	1000
AS4C128M32MD2-18BXN	134ball FBGA (11.5X11.5X1.0)	1680	168/Tray	1000
AS4C256M32MD2-18BXN	134ball FBGA (11.5X11.5X1.0)	1680	168/Tray	1000

### MOBILE DDR3

AS4C512M32MD3-15BCN	178ball FBGA	1280	128/Tray	1000
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